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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/881,115	06/14/2001	Michael Lynn Hinds	15745-US	7919

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EXAMINER

PANG, ROGER L

ART UNIT

PAPER NUMBER

3681

DATE MAILED: 09/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/881,115

Applicant(s)

HINDS, MICHAEL LYNN

Examiner

Roger L Pang

Art Unit

3681

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 9-12 is/are rejected.
- 7) ☒ Claim(s) 5-8 and 13-16 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: ____

DETAILED ACTION

The following action is in response to application 09/881,115 filed on June 14, 2001.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claim 1 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitsuya. With regard to claim 1, Mitsuya teaches a contaminant collector having magnetic characteristics (Fig. 2) being mounted in a box 1 in a location closely adjacent a top surface of a seal 5 so as to intercept and collect ferric contaminants before they engage the seal. With regard to claim 9, Mitsuya teaches a contaminant collector having a magnetic characteristic (Fig. 2) being mounted above and closely adjacent seals 5 so as to intercept ferric contaminants settling towards the associated seal.

Art Unit: 3681

Claims 1-2 and 9-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hauser.

With regard to claim 1, Hauser teaches a contaminant collector 55 having magnetic characteristics being mounted in a gearbox in a location closely adjacent a top surface of said box so as to intercept and collect ferric contaminants before they engage the seal (at wall of gearbox; Col. 7, lines 9-11). With regard to claim 2, Hauser teaches the gearbox wherein said contaminant collector is mounted for rotation with said shaft (Col. 7, lines 7-8). With regard to claim 9, Hauser teaches a contaminant collector 55 having a magnetic characteristic being mounted above and closely adjacent seals (at the wall of gearbox) so as to intercept ferric contaminants settling towards the associated seal (Col. 7, lines 9-11). With regard to claim 10, Hauser teaches the assembly wherein each of said contaminant collectors is mounted for rotation with an associated one of the shaft sections (Col. 7, lines 7-8).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-4 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hauser in further view of Van De Venne. With regard to claim 3, Hauser teaches the gearbox wherein said contaminant collector includes a ring fixed to said shaft via any conventional method, but lacks the specific teaching of said ring being press fit onto said shaft. Van De Venne teaches a ring 9 that is fixed to a shaft 11 via press fit (Col. 2, line 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Hauser to

Art Unit: 3681

employ a press fit in view of Van De Venne, since a press fit is a known conventional attachment method. With regard to claim 4, Hauser teaches the gearbox, wherein said magnetic characteristic is achieved by there being at least one magnetic component fixed as an integral part to an upper surface of said ring (the top of the magnet that is integral with the whole magnet). With regard to claim 11, Hauser teaches the assembly wherein said contaminant collector includes a ring fixed to said shaft via any conventional method, but lacks the specific teaching of said ring being press fit onto said shaft. Van De Venne teaches a ring 9 that is fixed to a shaft 11 via press fit (Col. 2, line 35). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Hauser to employ a press fit in view of Van De Venne, since a press fit is a known conventional attachment method. With regard to claim 12, Hauser teaches the assembly wherein said magnetic characteristic of each contaminant collector is achieved by at least one magnet being fixed to each ring (i.e. the surface of the magnet being an integral part fixed to the ring).

Allowable Subject Matter

Claims 5-8 and 13-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3681

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mahoney has been cited to show magnetic materials for a similar contaminant collector.

Yokouchi teaches a magnetic fluid being specifically made of oil.

Dorulla, Brunsting, Murphy, Friedly, Podkorkov, Teske, Moskowitz, and Black have been cited to show similar contaminant collectors.

Johnson and Buse have been cited to show similar magnet and ring arrangements.

FACSIMILE TRANSMISSION

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (703) 305-3597. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

• Art Unit: 3681

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office (Fax No. (703) 305-3597) on _____ (Date)

Typed or printed name of person signing this certificate:

(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roger L Pang whose telephone number is 703-305-0445. The examiner can normally be reached on 5:30am to 4:00pm.

• Art Unit: 3681

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 703-308-0830. The fax phone numbers for the organization where this application or proceeding is assigned are 705-305-3597 for regular communications and 705-305-3597 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.

RLP
September 19, 2002

A handwritten signature in black ink, appearing to be 'RP' with a stylized flourish extending to the right.

Roger Pang